

# EUROPEAN PATENT OFFICE

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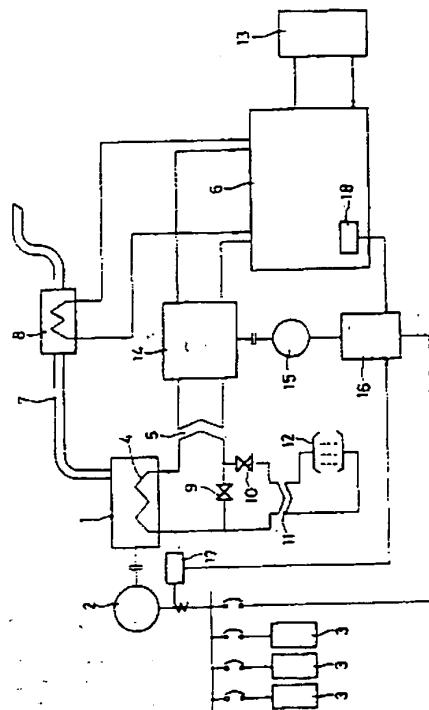
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TITLE : EXHAUST HEAT RECOVERY POWER  
 PLANT



**ABSTRACT :** PURPOSE: To suppress temperature variation of a heat storage tank, in power plant where a generator is driven through an engine to recover and store the produced heat then feed to a thermal load, by arranging a heat pump in the system for recovering said heat.

**CONSTITUTION:** In the system, a generator 2 is driven through an engine 1 to feed the output of generator to an electrical load 3 while exhaust heat from the cooler system 4 and the exhaust pipe system 7 of engine 1 is recovered and stored in a heat storage tank 6 then fed to a thermal load 13 such as an absorption refrigerating machine. Here, a heat pump 14 is arranged at the secondary of a water/water heatexchanger 7 for recovering the heat of cooling water in the cooler 4 to heat the thermal medium (water) entering into said tank 6. The heating capacity of said heat pump 14 is regulated through speed control of the drive source or a variable speed motor 15 which is controlled through a motor control circuit 16 in accordance to the outputs from a power sensor 17 and a temperature sensor 18.

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